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(10) **Number:** **US 5,474,979 C1**(45) **Certificate Issued:** **May 29, 2012**(54) **NONIRRITATING EMULSIONS FOR SENSITIVE TISSUE**(75) Inventors: **Shulin Ding**, Irvine, CA (US); **Walter L. Tien**, Irvine, CA (US); **Orest Olejnik**, Trabuco Canyon, CA (US)(73) Assignee: **Allergan, Inc.**, Irvine, CA (US)**Reexamination Request:**

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(52) **U.S. Cl.** **514/20.5**; 514/20.8; 514/785; 514/786; 514/912; 514/941; 514/943; 514/975(58) **Field of Classification Search** None
 See application file for complete search history.(56) **References Cited**

To view the complete listing of prior art documents cited during the proceeding for Reexamination Control Number 90/009,944, please refer to the USPTO's public Patent Application Information Retrieval (PAIR) system under the Display References tab.

Primary Examiner—Gary Kunz(57) **ABSTRACT**

A pharmaceutical composition is disclosed in the form of a nonirritating emulsion which includes at least one cyclosporin in admixture with a higher fatty acid glyceride and polysorbate 80. More particularly, the cyclosporin may be cyclosporin A and the higher fatty acid glyceride may be castor oil. Composition has been found to be of a high comfort level and low irritation potential suitable for delivery of medications to sensitive areas such as ocular tissues. In addition, the composition has stability for up to nine months without crystallization of cyclosporin.